

FIG. 1

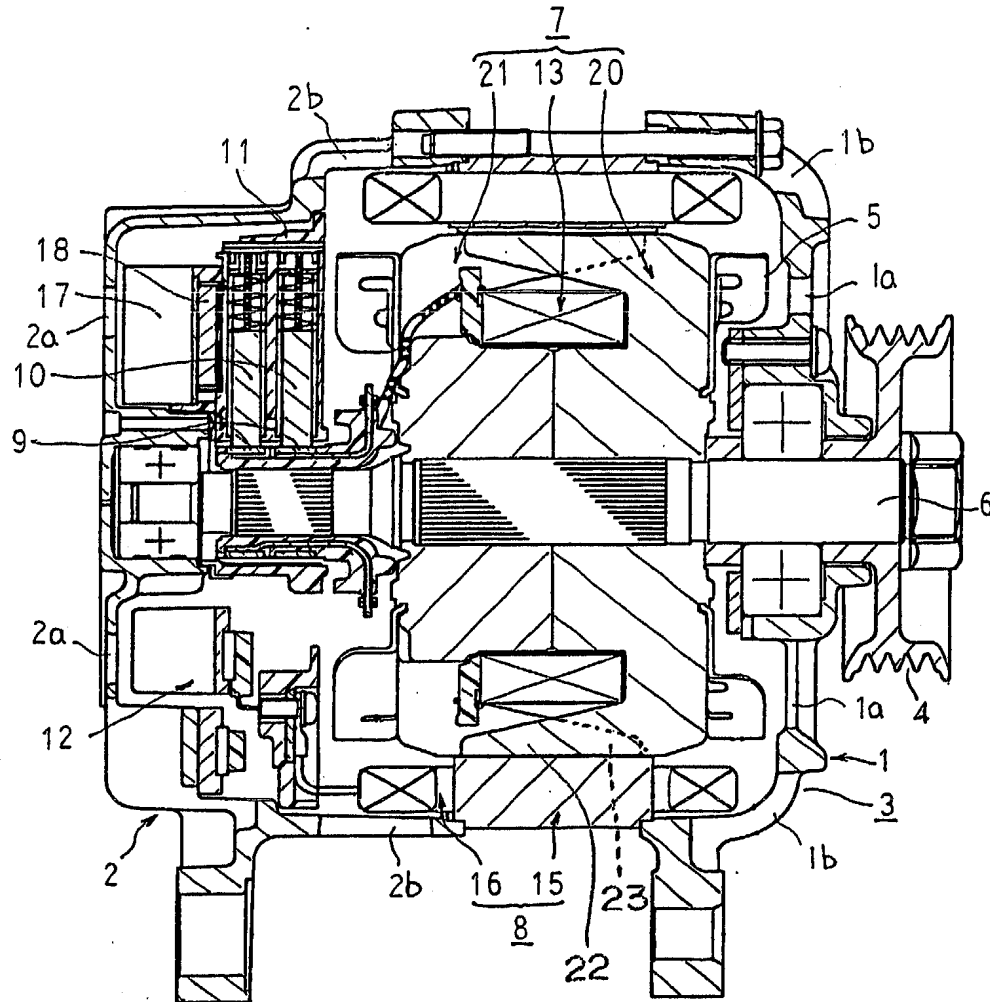


FIG. 1

FIG. 2

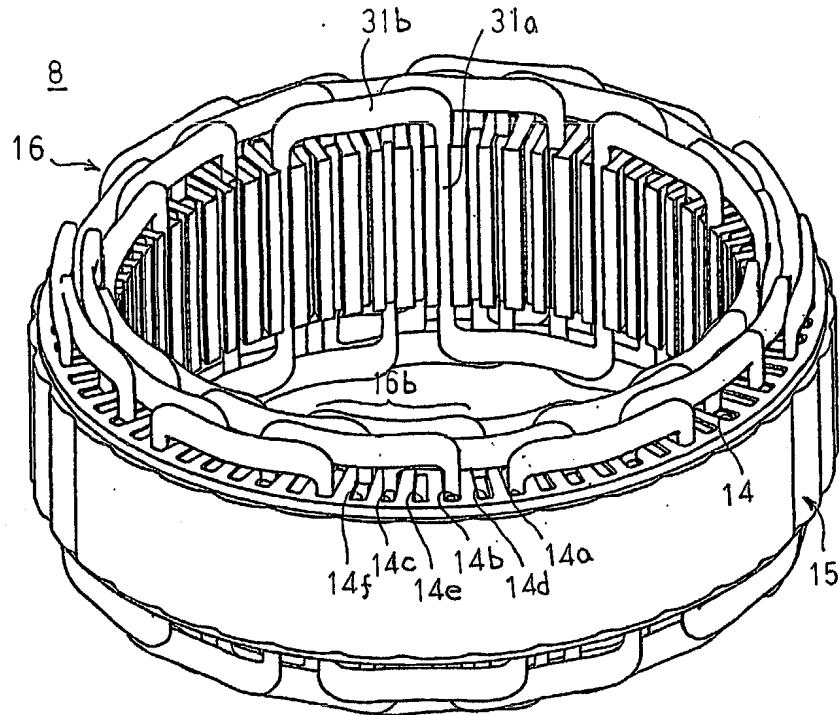


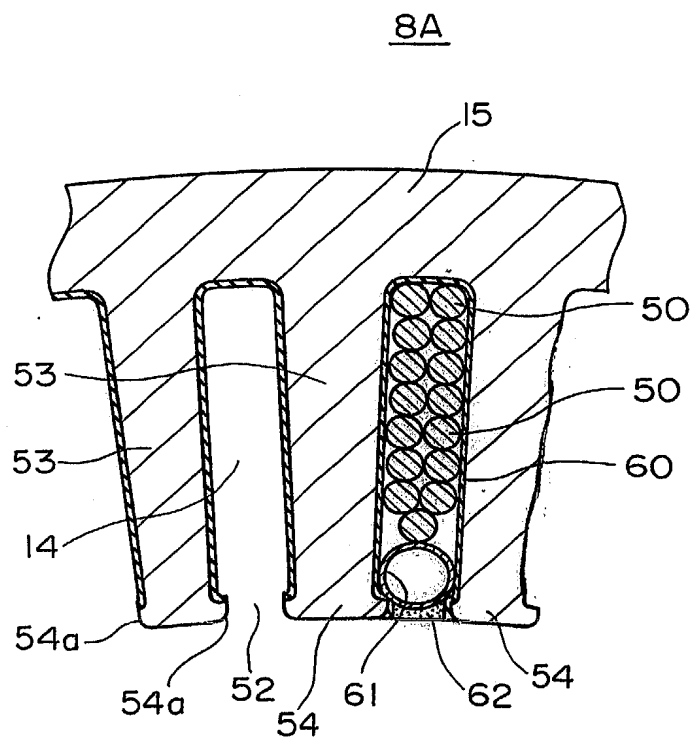
FIG. 2



The diagram illustrates a power supply system for a vehicle. It features a transformer (12A, 12B) with a primary winding connected to an AC source (16) and a secondary winding (30a, 30b, 30c, 30d, 30e, 30f) providing multiple output voltages. The secondary winding is divided into two sections, 30a and 30b, each with a 30° phase shift. The output voltages are rectified by diodes (30c, 30d, 30e, 30f) and connected to a switching circuit (13, 16, 18). The switching circuit includes a relay (13) and a transistor (18) controlled by a signal (16). The output of the switching circuit is connected to a battery (12A) and a ground connection.



FIG. 6



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1. $\alpha$ (degrees)	
0	0.000000
1	0.017453
2	0.034907
3	0.052359
4	0.069756
5	0.087156
6	0.104528
7	0.121869
8	0.139171
9	0.156434
10	0.173648
11	0.190821
12	0.207944
13	0.225027
14	0.242070
15	0.259073
16	0.276036
17	0.292959
18	0.309841
19	0.326683
20	0.343484
21	0.360245
22	0.376965
23	0.393645
24	0.410284
25	0.426883
26	0.443441
27	0.460000
28	0.476558
29	0.493076
30	0.509553
31	0.525990
32	0.542386
33	0.558741
34	0.575055
35	0.591328
36	0.607560
37	0.623751
38	0.639901
39	0.655999
40	0.672056
41	0.688072
42	0.704047
43	0.719981
44	0.735874
45	0.751726
46	0.767537
47	0.783307
48	0.799036
49	0.814724
50	0.830371
51	0.845977
52	0.861542
53	0.877066
54	0.892549
55	0.907991
56	0.923392
57	0.938752
58	0.954071
59	0.969349
60	0.984586
61	0.999782
62	1.014937
63	1.030051
64	1.045124
65	1.060156
66	1.075147
67	1.090097
68	1.105006
69	1.119874
70	1.134701
71	1.149487
72	1.164232
73	1.178936
74	1.193599
75	1.208221
76	1.222802
77	1.237342
78	1.251841
79	1.266299
80	1.280716
81	1.295092
82	1.309427
83	1.323721
84	1.337974
85	1.352186
86	1.366357
87	1.380487
88	1.394576
89	1.408624
90	1.422631
91	1.436597
92	1.450522
93	1.464406
94	1.478249
95	1.492051
96	1.505812
97	1.519532
98	1.533211
99	1.546849
100	1.560446
101	1.574002
102	1.587517
103	1.601000
104	1.614452
105	1.627873
106	1.641263
107	1.654622
108	1.667950
109	1.681247
110	1.694513
111	1.707748
112	1.720952
113	1.734125
114	1.747267
115	1.760378
116	1.773458
117	1.786507
118	1.799525
119	1.812512
120	1.825468
121	1.838393
122	1.851287
123	1.864150
124	1.876982
125	1.889783
126	1.902553
127	1.915292
128	1.928000
129	1.940677
130	1.953323
131	1.965938
132	1.978522
133	1.991075
134	2.003597
135	2.016088
136	2.028548
137	2.040977
138	2.053375
139	2.065742
140	2.078078
141	2.090383
142	2.102657
143	2.114899
144	2.127110
145	2.139290
146	2.151439
147	2.163557
148	2.175644
149	2.187700
150	2.199725
151	2.211719
152	2.223682
153	2.235614
154	2.247515
155	2.259385
156	2.271224
157	2.283032
158	2.294809
159	2.306555

8B

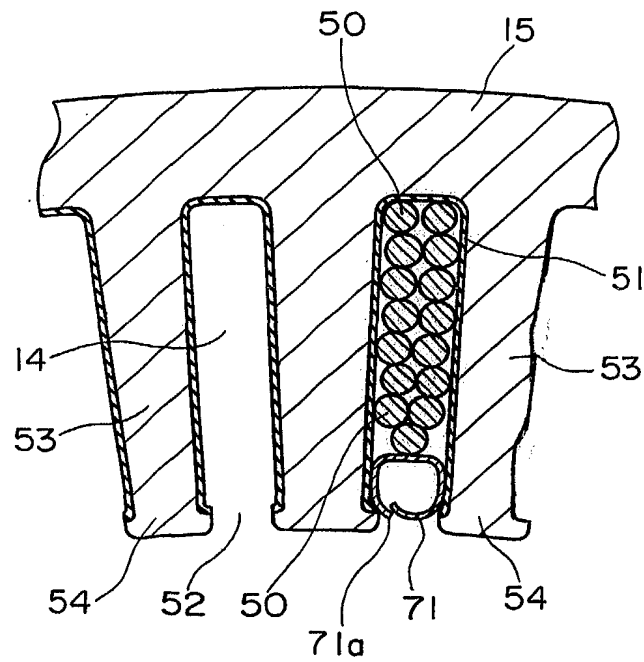
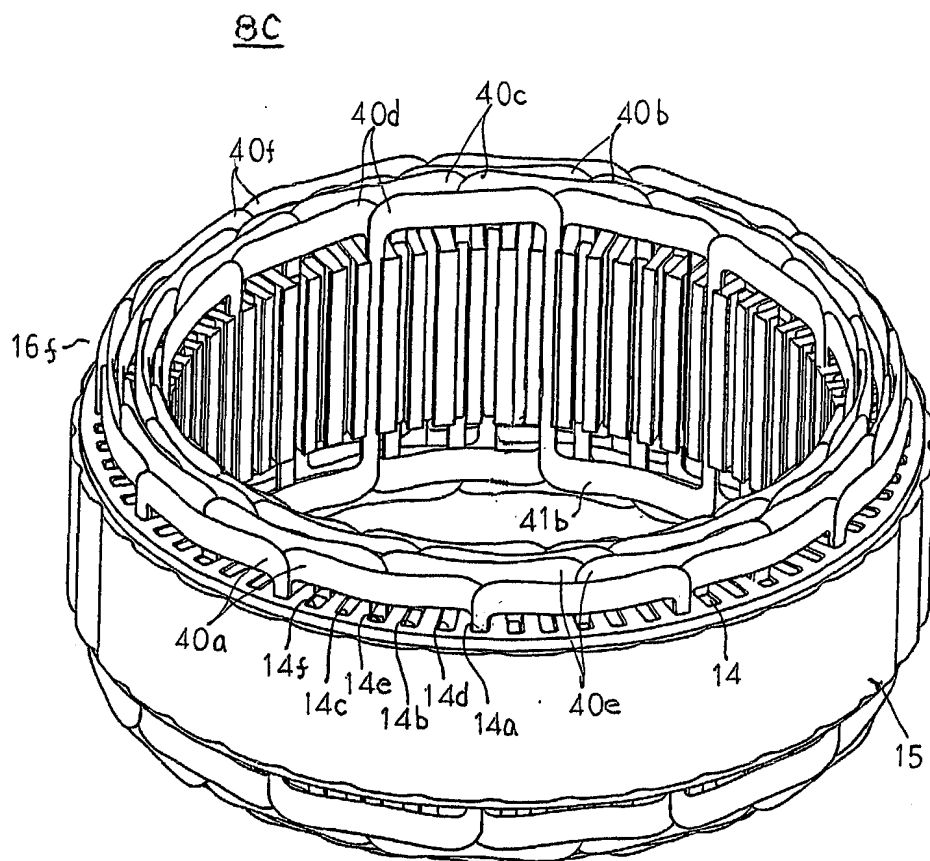


FIG. 8



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FIG. 9

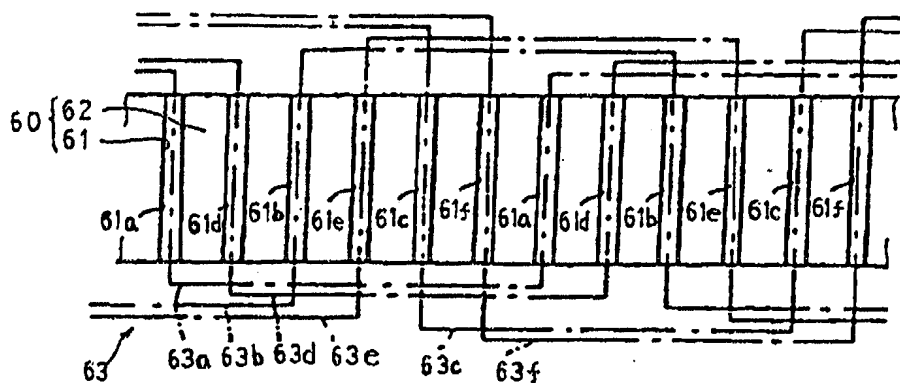


FIG. 10

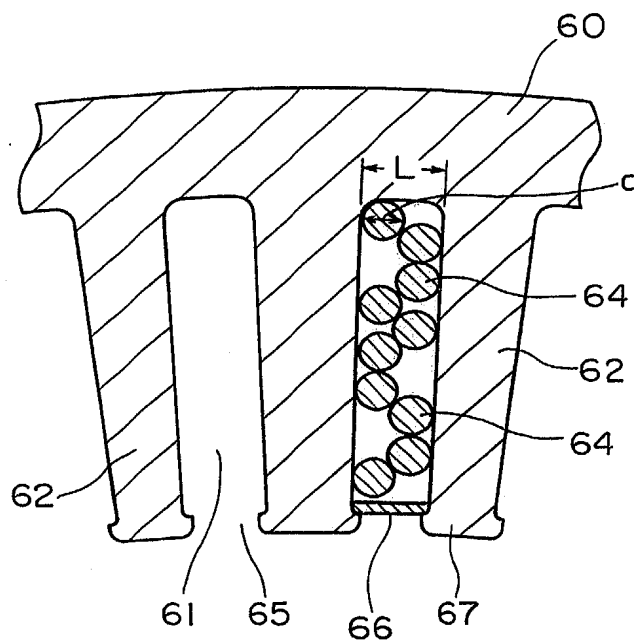


FIG. 10